OLEFIN OLIGOMERATION CATALYST AND METHOD FOR OLIGOMERIZING OLEFIN BY USING THE SAME

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Abstract of **JP9176229**

PROBLEM TO BE SOLVED: To oligomerize an olefin in high activity by using an olefin oligomeration catalyst comprising a chromium compound, an alkylmetal compound and an imide compound.
SOLUTION: The chromium compound is represented by the formula: CrAm Bn (wherein (m) is 1-6; (n) is 0-4; A is a 1-20C alkyl, an aryl, an arene, an alkoxyl, a carboxylate or the like; and Bs are each a N-, P-, As-, Sb-, O- or S-containing compound) and is used in an amount of 0.001-100mmol per 1 of the solvent. The alkylmetal compound is represented by the formula: Rp MXq (wherein 0<p<=3; 0<=q<3; p+q=1-3; M is Li, Mg, Zn, B or Al; R is a 1-10C alkyl; and X is H, an alkoxyl, an aryl or a halogen) and is used in an amount of 0.1-10,000 equivalents per mol of the chromium compound. The imide compound is represented by formula I (whereon R<1> and R<2> are each H, a 1-10C alkyl, a halogen or an aryl, provided that they may be combined with each other through a C-C bond to form a cyclic substituent) and is used in an amount of 0.1-1,000 equivalents per mol of the chromium compound.